<Files\\Al-Masri 2019> - § 1 reference coded [0,79% Coverage]

Reference 1 - 0,79% Coverage

   Hardware prototyping platforms such as Arduino and Raspberry Pi offer students the means for embracing the intellectual challenge by making creative ideas accessible to all learners.

<Files\\Carratala-Saenz 2019> - § 2 references coded [0,57% Coverage]

Reference 1 - 0,16% Coverage

   Raspberry Pi components provide sufficient flexibility and versatility.

Reference 2 - 0,41% Coverage

   Reasonable prices of Raspberry Pi and all the other compo-nents employed for the clusters offer the possibility of enabling students to group and develop their own cluster independently.

<Files\\Cooper 2017> - § 2 references coded [0,76% Coverage]

Reference 1 - 0,39% Coverage

   The raspberry pi was designed with the purpose of teaching programming and computer science

Reference 2 - 0,37% Coverage

   Using the Raspberry pi, students can create complex programs with Python and Scratch.

<Files\\Ferreira 2018> - § 4 references coded [0,58% Coverage]

References 1-2 - 0,36% Coverage

The use of the Raspberry Pi and Arduino over other
choices, was to give to the participants experience working with a fully featured Linux operating
system. Also, with Raspberry Pi, all development could be done directly on the board, so students can interact with the sensors in real
time.

References 3-4 - 0,23% Coverage

The built-in wireless options on the Raspberry Pi, gave the opportunity to teach students how to control their robots through the
internet or smartphone using basic web-
technologies.

<Files\\Hallak 2019> - § 1 reference coded [0,08% Coverage]

Reference 1 - 0,08% Coverage

Raspberry Pi is an affordable single board computer.

<Files\\He 2018> - § 1 reference coded [1,26% Coverage]

Reference 1 - 1,26% Coverage

Q1: The use of Raspberry Pi-based lab development kit on the CoT framework
helped prepare me for complex IoT systems topics later in the course
Q2: The CoT framework lab provide me with more hand-on experience on real world IoT application
design and development.
Q3: Designing, writing, and testing software to run on the CoT framework is easy to follow and
practice.
Q4: Learning to wire digital and analog sensors to Raspberry Pi on the CoT
framework is easy to follow and fun to practice.
Q5: The CoT framework help me understand better about secure communication
principles and implementation.
Q6: The CoT framework lab promotes my interest and engagement in Raspberry Pi programming and
IoT application development
Q7: The CoT framework is a sufficiently
robust and adaptive environment for use in an IoT course.

<Files\\Kawash 2016> - § 1 reference coded [0,13% Coverage]

Reference 1 - 0,13% Coverage

The Raspberry Pi is a small and inexpensive single-board computer that was created for educational
purposes

<Files\\Krupp2019> - § 4 references coded [0,76% Coverage]

Reference 1 - 0,30% Coverage

By using Pis, we were able to introduce a broad range of areas in computing and give students
hands-on experience in these areas, including programming, physical computing, data mining and
visualization, networking, and security and privacy.

Reference 2 - 0,15% Coverage

As an additional benefit of choosing the Raspberry Pi, the price was comparable and often less than a
traditional textbook

Reference 3 - 0,16% Coverage

The Pi also allows students to perform projects that require a physical computing aspect by using the
GPIO headers on the Pi.

Reference 4 - 0,15% Coverage

By utilizing the Pi, students can also take advantage ofnumerous on-line resources they can reference
for potential projects

<Files\\matthews2018> - § 6 references coded [0,89% Coverage]

Reference 1 - 0,02% Coverage

Standardization

Ease ofsetup and maintenance.

Affordability

Immediacy

"The somewhat limited resources on the Pi (as compared to KVL or something) really makes you focus on efficiency and proper programming".

We have also discussed strategies for teaching parallel computing
with the Raspberry Pi. In particular, the Raspberry Pi costs less than many course textbooks. With the availability of free, high-quality teaching materials, Raspberry Pis can be individually purchased by students like a textbook. This makes the Pi useful in a variety of different contexts, including required courses, elective courses, undergraduate research, and outreach experiences.

The Raspberry Pi (RPi) is an affordable and powerful microprocessor capable of performance similar to a modern personal computer. In addition to its considerable processing power, it is small in size, about the size of a credit card (see Figure 1). The RPi also has a number of general purpose input-output (GPIO) pins which allows it to be connected to a number of sensors. This makes the device ideal for embedded systems and systems which require on-board processing.

Most of the equipment used for electrical engineering labs are generally big in size, complicated and expensive. The Raspberry Pi based labs are small and simple to implement and students can carry them around. Due to their low costs, they can be available in very many sets, meaning that students can carry out the labs in smaller groups and even as individuals. This has the potential to reduce the cost of electrical engineering education making it more cost effective for universities and students.

Benefit – Raspberry Pi, confidence in Python. Know that
this is used in schools where we will be training. Had a play with Scratch.

Recent research findings [3] have
not been shown
teaching parallelism using single-board computers (SBCs) such as the Raspberry Pi as a uniform work environment is effective.